

TOSHIBA

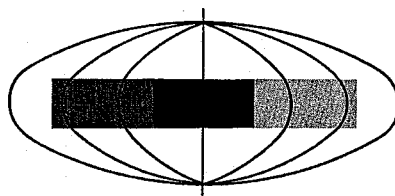
TOSH-00940

COLOUR TELEVISION
11-SYSTEM

219X6M:289X6M

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105, JAPAN



WELCOME TO THE BRIGHT NEW WORLD OF **TOSHIBA** COLOUR

Your new, precision-built Toshiba Colour Television receiver has been designed and engineered by the world's largest maker of IC's, transistors and diodes to give you the most dependable, most natural colour television reception possible today.

IMPORTANT

This handbook explains the locations and the operating procedures of all controls on your Toshiba Models 219X6M/289X6M Solid State Colour TV Receivers.

To enjoy your set to the full from the very beginning, read this handbook carefully and keep it handy for ready reference.

This set allows you to receive 11 systems, namely, PAL B/G, SECAM B/G, PAL D/K, SECAM D/K, PAL I, NTSC Standard (US M, JAPAN M), NTSC 3.58/5.5 (VTR Play Back), NTSC 4.43/5.5 (VTR Play Back), PAL 50/60 Hz (VIDEO DISK Play Back), SECAM 50/60 Hz (VIDEO DISK Play Back) and NTSC 50/60 Hz (VIDEO DISK Play Back).

INSTALLATION

- **LOCATE** the receiver in the room where direct light does not strike the screen.
Total darkness or a reflection on the picture screen can cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.
- **ALLOW** enough space between the receiver and the wall to permit proper ventilation.
- **AVOID** excessive warm locations to prevent possible damage to the cabinet or component failure.
- **CONNECTION:** This TV receiver can be connected to AC 110 ~ 245 volts, 50/60 Hz due to employment of A.V.R. (Automatic Voltage Regulator).
NEVER connect to DC supply or any other power.
- **POWER CONSUMPTION** of 219X6M is 100 watts and 289X6M is 152 watts at AC 220 volts/50 Hz.
- **Automatic Degaussing:** All colour television receivers are sensitive to magnetic influences, usually caused by either moving the receiver from one place to another or using certain electrical appliances near the receiver. This residual magnetism as it is called, sometimes causes distortion which gives rise to 'blotchy' areas of colour in the picture. To avoid these effects the receiver incorporates an automatic degaussing circuit which operates for a short while immediately each time the receiver is switched on using the mains switch. This circuit removes any residual magnetism in the metal parts of the picture tube and therefore ensures that each time the receiver is switched "ON" using the Mains switch, the purity of the colours displayed on the screen remain true and lifelike. If the set is moved or faced in a different direction, the mains switch must be switched off at least ONE hour in order that the automatic degaussing circuit operates properly.
- **CAUTION:** Never tamper with any components inside your set, or any other adjustment controls not mentioned in this manual. All television receivers are high voltage instruments. Your PICTURE TUBE is highly evacuated. If broken, glass fragments will be violently expelled. Scratching, chipping or undue pressure is dangerous and should be avoided. When you clean up dust or stick of a water drop on the PICTURE TUBE FACE or CABINET, the power cord should be pulled out from the plug receptacle, then wipe the receiver with dried soft cloth. All "inside work" on your receiver should be performed only by the TV Service Personnel.

AERIAL CONNECTION

■ Indoor aerial

Take out the antenna holder which is packed together with the receiver and attach it to the TV cabinet inserting the four clicks into the holes on the rear panel as shown in figure. F.

Push in the telescopic aerial (supplied) into the holder as shown in figure C.

Attach the leads of telescopic dipole aerial to the aerial terminal socket through the 75Ω – 300Ω adaptor as shown in figure B. Pull out the rods and spread them.

Adjust their length, angle and direction for best reception.

■ Outdoor aerial

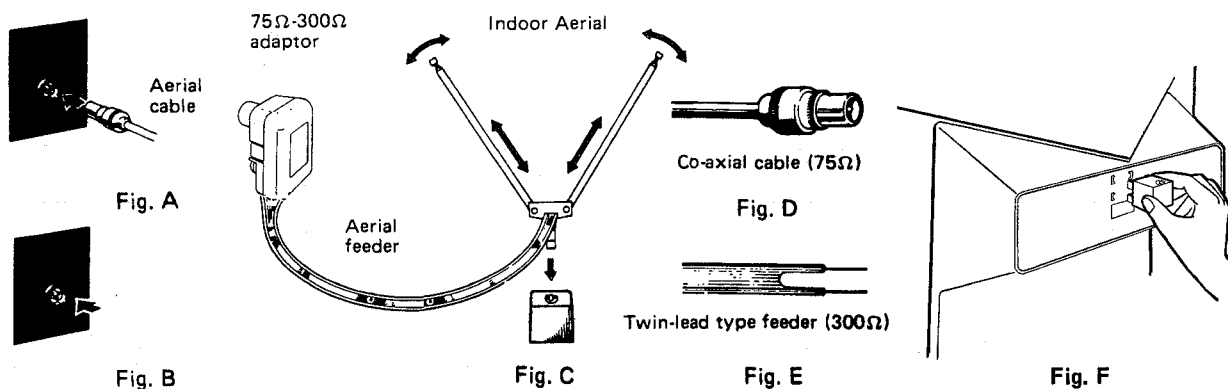
If it is difficult to get good reception with the indoor aerial, . . . you may be located in a concrete building, a mountainous area or surrounded by many tall buildings . . . use the outdoor aerial for better results.

Optimum colour reception requires a good outdoor aerial. If you intend to use a previously installed outdoor aerial, check the aerial and its leads for the effects of weathering. Your Toshiba dealer or service personnel can advise you the best aerial to use in your area.

When using an outdoor aerial, disconnect the leads of the indoor aerial from the aerial terminal socket.

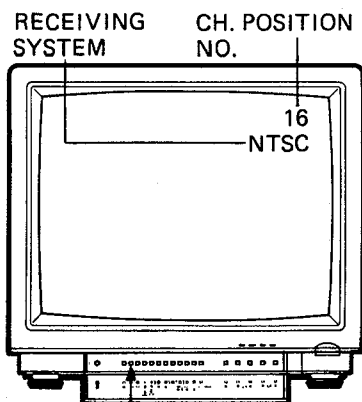
- In case of using the coaxial cable (75Ω) for UHF/VHF aerial, connect the plug (refer to figure D) into the 75Ω socket as shown in figure A.

- In case of using the twin-lead type feeder (300Ω) for UHF/VHF aerial, trim the lead as shown in figure E and connect the lead to the terminals on the adaptor. Then connect the adaptor to the 75Ω socket as shown in figure B.



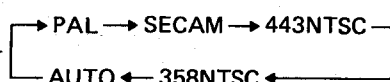
COLOUR SYSTEM SELECTION SWITCH OPERATION

This TV receiver can receive 11 systems.



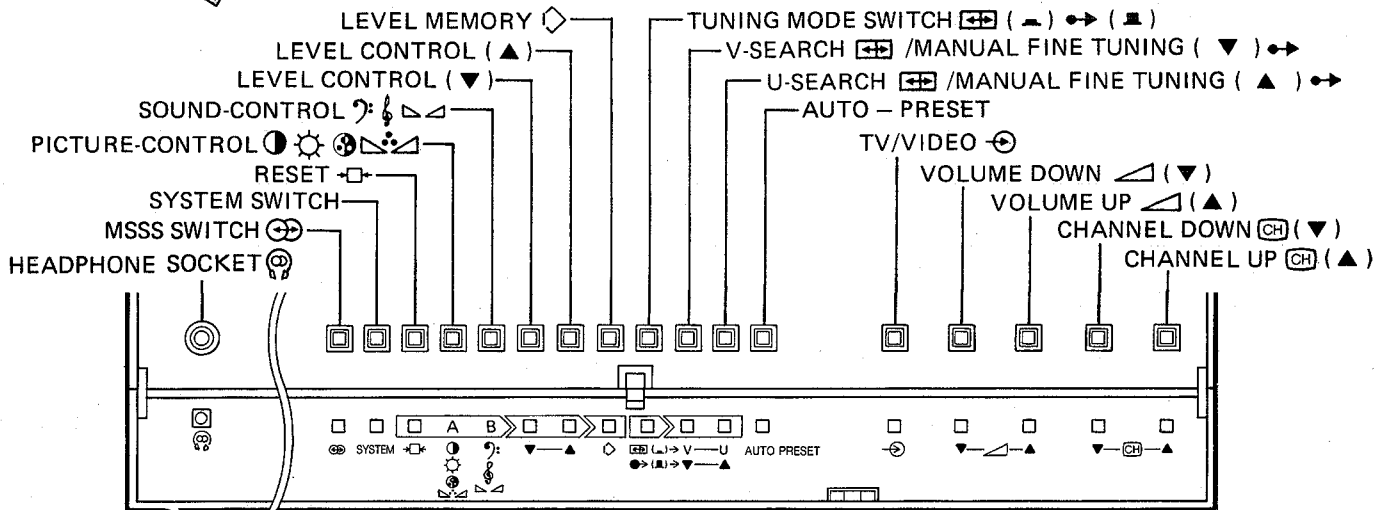
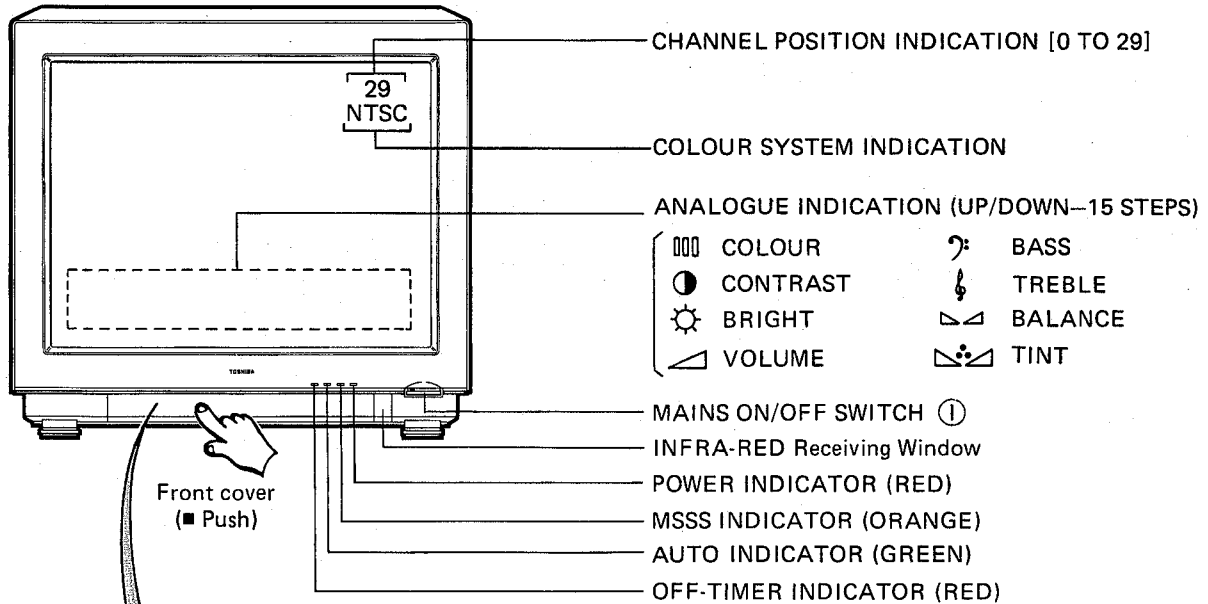
- AUTO All signals of 11 systems can be received.
- PAL PAL signal can be received.
- SECAM SECAM signal can be received.
- 443NTSC Signal from VTR on 4.43 NTSC can be received.
- 358NTSC 3.58 NTSC signal can be received.
U.S.CHANNEL, JAPAN CHANNEL
(PHILIPPINES, KOREA)

Note: Colour system indication is displayed in green when the TV is switched on automatic mode and in cyanic when switched on manual mode.

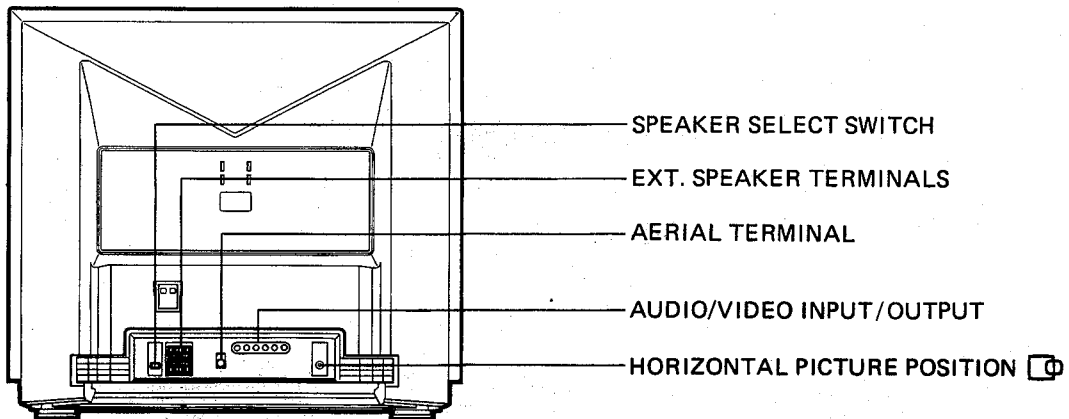


LOCATION OF CONTROLS

FRONT VIEW



REAR VIEW



OPERATING THE TELEVISION RECEIVER

TO SWITCH ON THE RECEIVER

Push in the POWER switch. POWER indicator will be illuminated.

Note: If the power stays in standby mode, push the (CH) ▲ ▼ buttons.

TO ADJUST VOLUME (▲ ▼)

Keep on pressing the VOLUME UP button for increase in volume.

Keep on pressing the VOLUME DOWN button for decrease in volume.

Release the button at your desired volume level.

CHANNEL SELECTION AND TUNING (▲ ▼) (CH)

You can select your favourite program by the channel selection keys on the remote control hand unit or "CHANNEL UP/DOWN" keys on the front of the receiver.

To enjoy the program which is not preset, set the channel by following procedure.

(1) CHANNEL PRESET PROCEDURE

Select the position to be preset by the Channel Position Button (▲ or ▼) on the TV set or the remote control hand unit or by the Direct Position Selector on the remote control hand unit.

To select a position from 10 to 29, press either the "1—" or "2—" button first, and then press one of the buttons from "0" to "9".

For example: 16th. position; Press the "1—" and "6" buttons.

29th. position; Press the "2—" and "9" buttons.

(2) SEARCH

a. Push on the tuning mode switch. ()

b. Push the SEARCH key.

c. When television signal is caught, search operation stops and the channel is memorized automatically.

d. During search operation, " >>>> " is indicated under the position indication.

e. When SEARCH gets to the END of VHF or UHF, the display " >>>> " will flash.

(3) MFT (Manual Fine Tuning)

a. Push off the tuning mode switch. ()

b. Tune the fine picture by MFT button. (▲ or ▼)

AUTO PRESET

- By pressing the AUTO PRESET button, channel position number and indication " >>>> " are displayed at the top right-hand side of the screen, and then "SEARCH" operation starts.
- Once started, "SEARCH" selects signals presenting on broadcast in sequence from lower channel to higher channel and the receiver set memorises automatically these selected channels storing them one by one into the position one and the subsequent positions.
- With completion of the operation, indication " >>>> " disappears. Now "SEARCH" returns to the position one and the channel selected by the position one can be received.

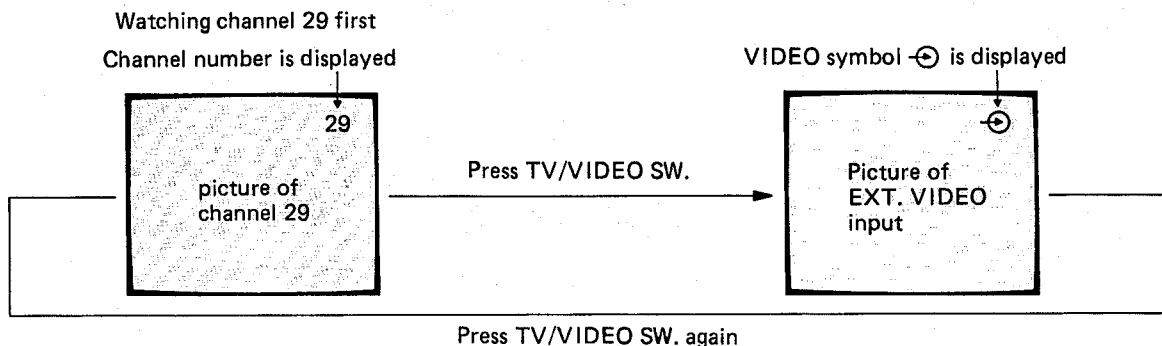
MSSS (Multi Spacial Sound System) Button ()

Push on the MSSS button and the MSSS indicator will be illuminated. Now you can enjoy an enhanced dimension in the sound. Push off the MSSS button, and the sound returns to the original state.

TV/VIDEO SWITCH (⊕)

When you enjoy the program from the video equipment, such as VCR, press this button on and "VIDEO" indication comes out as illustrated below.

The TV picture changes as shown in the following figures.



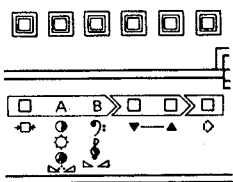
CONTROL ADJUSTMENTS

CONTROL KEYS

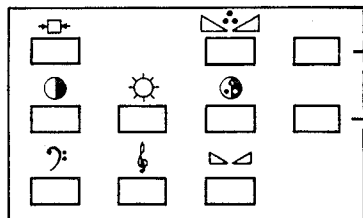
(Local Control Keys)

(ADJUSTMENT)

(LEVEL)



(Remote Control Keys)

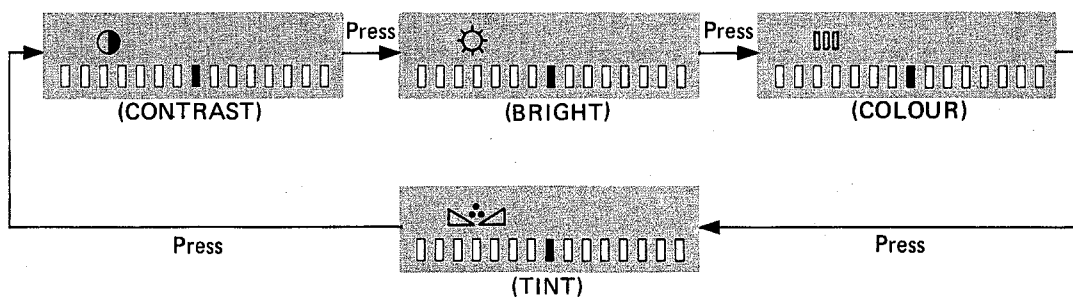


FUNCTION SELECT

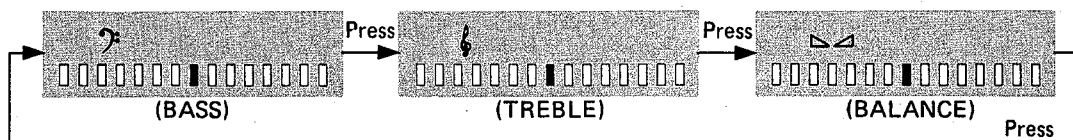
(1) LOCAL KEYS

The PICTURE-CONTROL (A) or SOUND-CONTROL (B) Button decides a function to be adjusted among CONTRAST, BRIGHT, COLOUR, TINT, BASS, TREBLE and BALANCE in the order shown below.

[A] PICTURE CONTROL Button



[B] SOUND-CONTROL Button



(2) REMOTE CONTROL KEYS

Each function is selected directly.

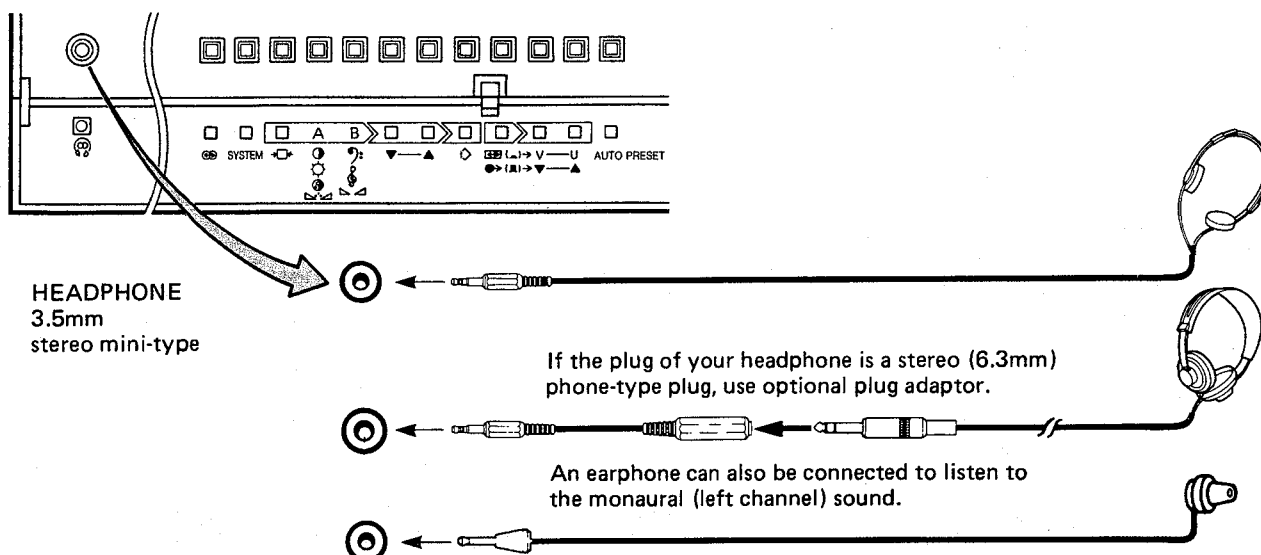
ADJUSTMENT

1. The level control keys (▲ or ▼) are common to the functions. These keys work only while the selected function is displayed. (for 4 sec.)
2. Above display will disappear if no additional pressing of CONTROL or LEVEL (▲ / ▼) key is done within 4 seconds.
3. The last adjusted value will be stored into memory IC when LEVEL (▲ or ▼) key is released.
4. The RESET (↶↷) key resets the value corresponding to picture control functions, such as CONTRAST, BRIGHT, COLOUR and TINT to the value which is previously programmed by customers.
In order to program the reset value, press the MEMORY (◇) key after adjusting each function.
5. Adjustment steps and indication
Each function can be adjusted with 64 steps and it's approx. adjusted value is displayed with 15 steps.

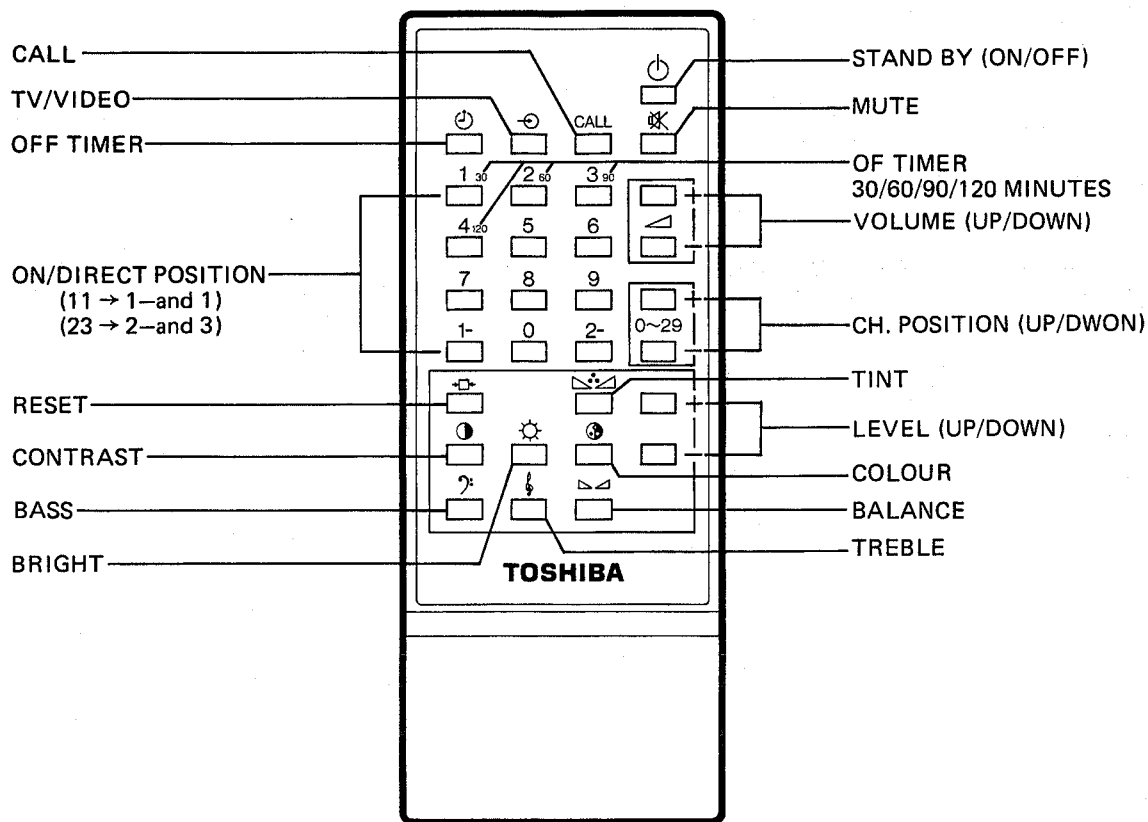
		ON-SCREEN COLOUR BAR DISPLAY	
FUNCTION			
		CONTROL DOWN ▼ Button (The red segment moves left)	CONTROL UP ▲ Button (The red segment moves right)
PICTURE-CONTROL Button	CONTRAST	Weak	Strong
	BRIGHT	Dark	Light
	COLOUR	Pale	Deep
	TINT	Purplish	Greenish
SOUND-CONTROL Button	BASS	Low tones are weakened	Low tones are enhanced
	TREBLE	High tones are weakened	High tones are enhanced
	BALANCE	Lowers sound from the right speaker	Lowers sound from the left speaker

USE OF HEADPHONE

For private listening, connect a headphone (optional) to the HEADPHONE jack.
The sound from the speakers will be cut off automatically.



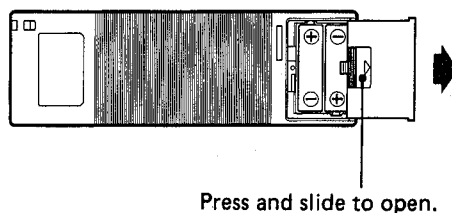
REMOTE CONTROL HAND UNIT



Before operating

INSTALLING THE BATTERIES

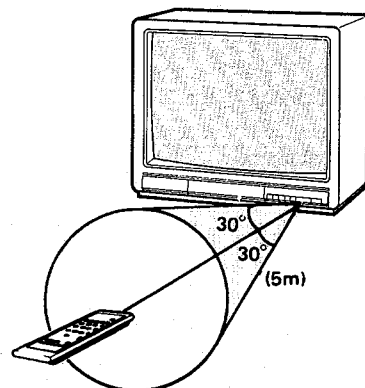
1. Remove the battery cover.
2. Insert the 2 "AA" (pencil size) 1.5V batteries making sure the polarity (+ or -) of the batteries matches the polarity marks inside the unit.
3. Close the battery cover.



TIPS FOR REMOTE OPERATION

- If intermittent remote control operation occurs, replace the batteries according to "INSTALLING THE BATTERIES."
- The battery life should be about a year under normal use.
- When the Remote Control Hand Unit is not used for a long period of time or when the batteries are worn out, take out the batteries to prevent liquid leak.
- Do not throw the batteries into a fire. Dispose of used batteries in the specified places.
- Take care not to drop, dampen, disassemble the Remote Control Hand Unit.

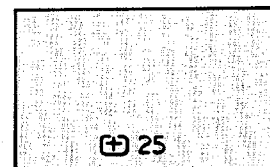
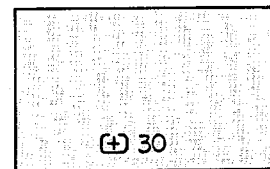
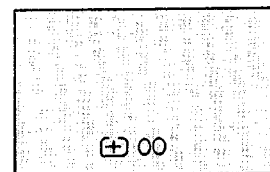
Effective Range



REMOTE OPERATION

Before using the Remote Control Hand Unit, push the power switch on the receiver to turn the TV set on.

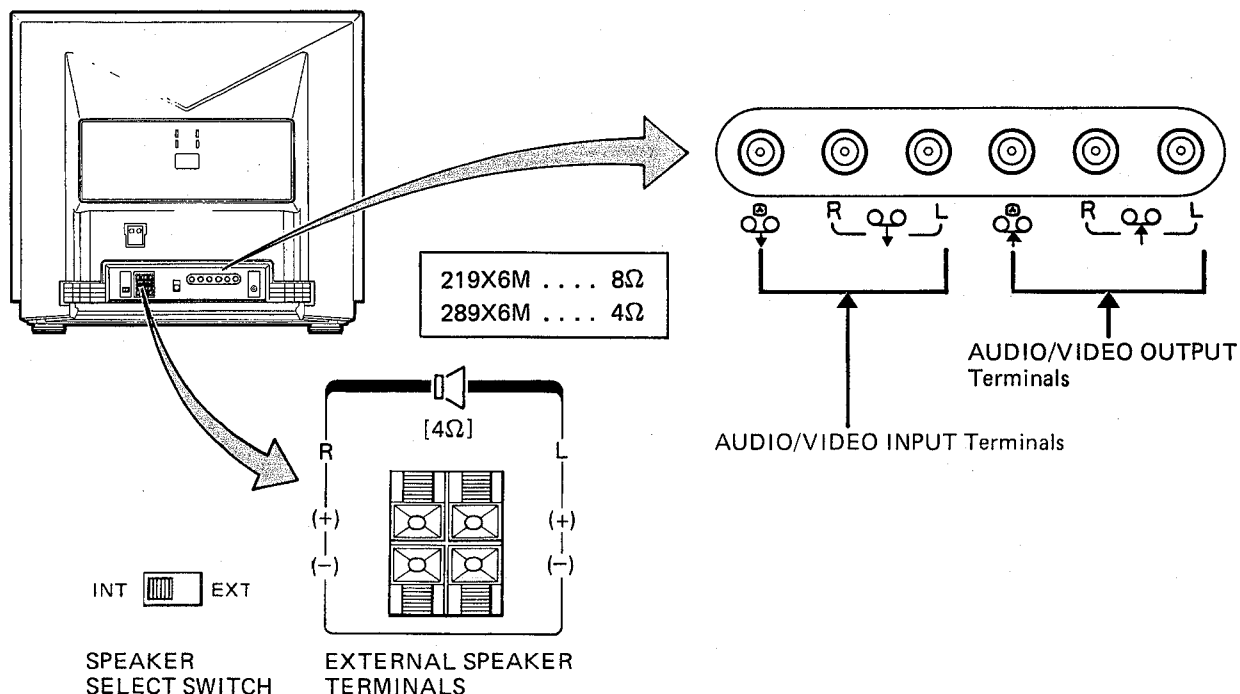
1. **STAND-BY "ON/OFF" Button** ()
To switch on, push the button. To switch off, push the button again.
2. **ON/DIRECT POSITION Selector**
To switch the TV set "ON", press any of the position buttons, and the program in that position comes out.
3. **VOLUME UP or DOWN Button** ()
 -  Continuous press increases Volume gradually.
 -  Continuous press decreases Volume gradually.
 Release the button at your desired volume.
4. **BRIGHTNESS Button** ()
Press the BRIGHTNESS  button.
 -  Continuous press increases Brightness gradually.
 -  Continuous press decreases Brightness gradually.
5. **COLOUR Button** ()
Press the COLOUR  button.
 -  Continuous press increases Colour gradually.
 -  Continuous press decreases Colour gradually.
6. **CONTRAST Button** ()
Press the CONTRAST  button.
 -  Continuous press increases Contrast gradually.
 -  Continuous press decreases Contrast gradually.
7. **TINT Button** ()
Press the TINT  button.
 -  Continuous press increases Tint gradually.
 -  Continuous press decreases Tint gradually.
8. **CALL Button**
The selected CHANNEL NUMBER is indicated on the TV screen when the "CALL" button is pressed.
The indication disappears by the second press.
9. **RESET Button** ()
By pushing the RESET button, the levels of the colour, the brightness and contrast return to the original levels.
10. **MUTE Button** ()
Pushing the button stops the sound temporarily.
Pushing the button again returns the sound to the volume at which it was set immediately before the muting.
Use when the telephone rings.
11. **OFF-TIMER ()**
OFF-TIMER function is incorporated in new control system. Four kinds of setting time, such as 30, 60, 90 and 120 min., are available and its remaining time before turning off a set can be displayed on the screen.
OFF-TIMER is only operated with Remote Control Hand Unit.
For example, if you wish to switch the TV set off after 30 minutes:
 1. Press **TIMER**  Button.
The **TIMER** mode is displayed on the screen.
 2. Press "  " Button.
"  30 " will appear on the screen and OFF-TIMER INDICATOR lights up.
 3. Press **TIMER** Button again.
The display of **TIMER** mode will disappear.
 4. When you want to know the remaining time before tuning off a set, press **TIMER** button. Then the remaining time will show up on the screen.



Note: To cancel the timer operation, ① press **TIMER** button ② Press **RESET** button.
Timer operation is also canceled by turning the power off.

CONNECTING THE EXTERNAL EQUIPMENT

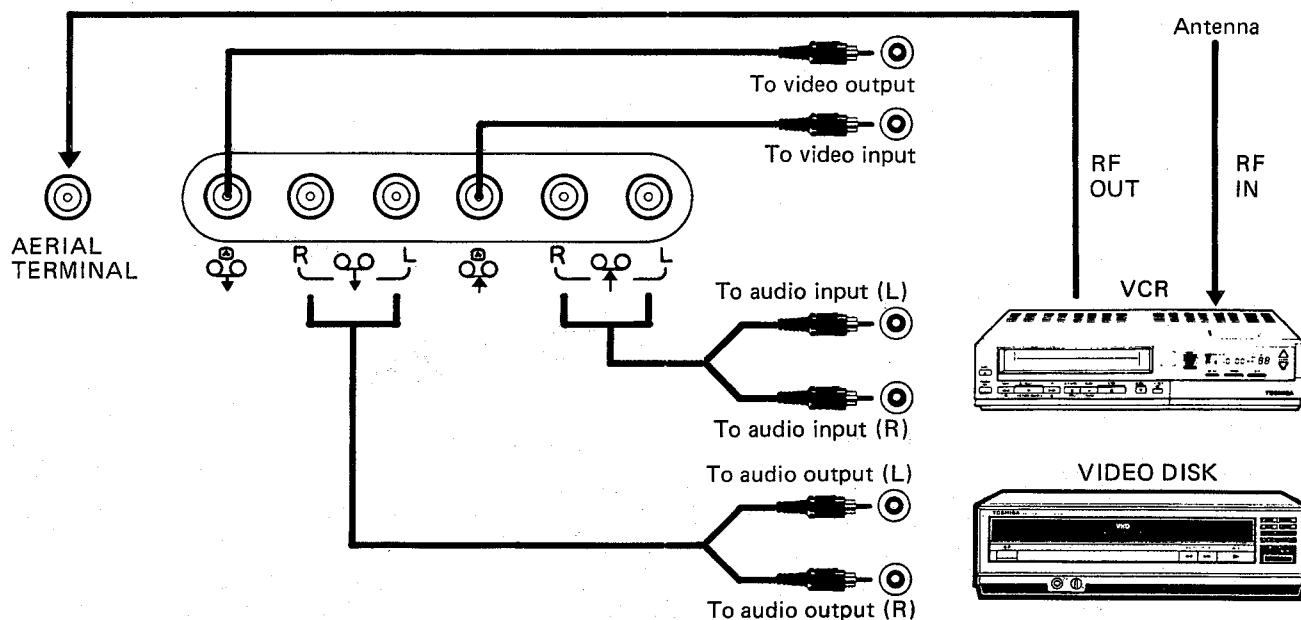
This TV set is equipped with AUDIO/VIDEO INPUT/OUTPUT Terminals and EXTERNAL SPEAKER TERMINALS for your desired equipment to be connected.



USING THE AUDIO/VIDEO INPUT/OUTPUT TERMINALS

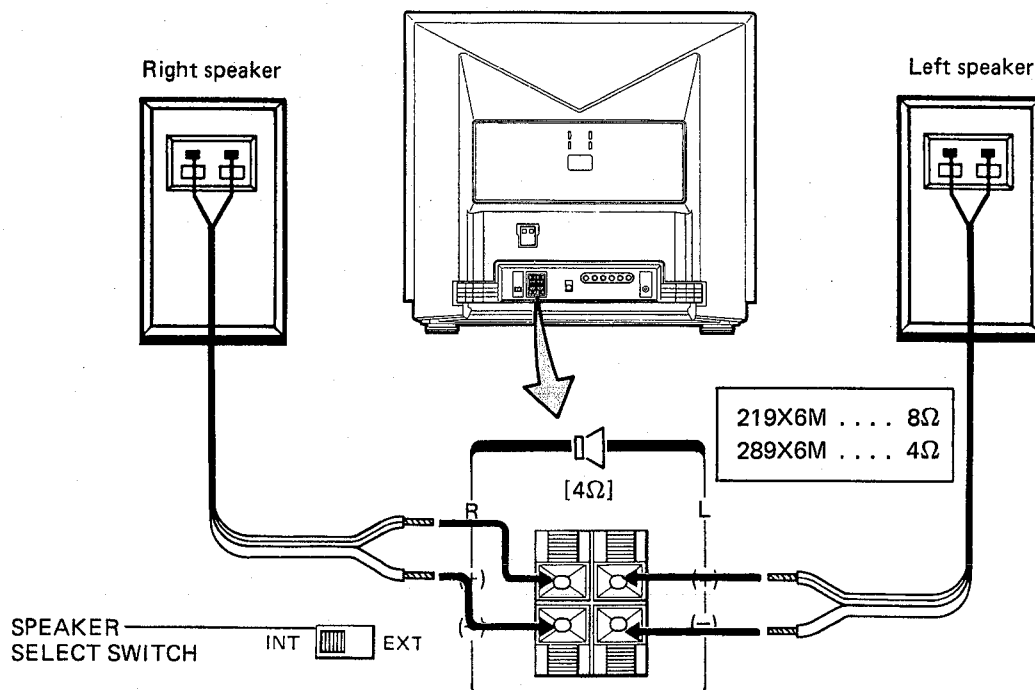
Connect to the audio and video output terminals of a VCR, video disk player, etc. for playback of video material. The material being played back on the video equipment can be viewed on the TV screen.

- Note:**
- When using monaural sound equipment, connect its cord to the Left/Mono jack. Identical sound will be heard from both left and right speakers.
 - The owner's manual of the equipment connected should also be read.

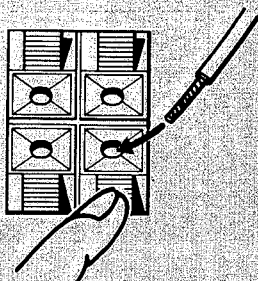


CONNECTING EXTERNAL SPEAKERS

You can also enjoy sound by connecting a HI-FI speaker system to the external speaker terminals on this TV. Before connecting the external speakers, turn the TV set off.



1 Connect speaker leads



While pressing the button, insert the wire into the hole, then release the button.

Pull firmly on the connection to make sure it is secure.

Make sure connection of the wire is proper (R·L and $\oplus$ · $\ominus$).

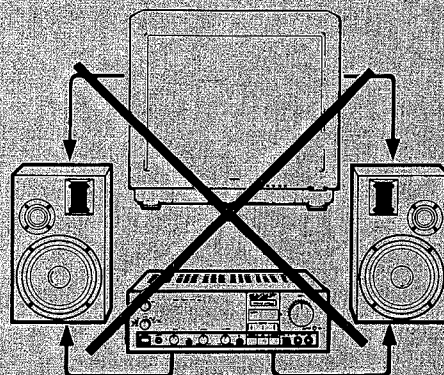
2 Set the SPEAKER SELECT Switch



Switch it to "EXT" side (right).
The built-in speaker sound is disconnected.

Note:

- Do not connect two sound sources to the same speaker system.
This may damage the TV. See the right figure.
- Use only external speakers with an impedance rating of 8 ohms (219X6M) or 4 ohms (289X6M) and input power 5 watts or more.



SERVICE TIPS

BEFORE CALLING FOR SERVICE,
HAVE YOU CHECKED (✓) THE
FOLLOWING CHART ON SYMPTOMS
AND SOLUTIONS?

Symptoms	Solutions												
	Check if on/off switch is "on"	Try a different channel, if OK, probably station trouble	Check aerial connections on back of set	Re-orient aerial (if indoor type)	Probably local interference, such as an appliance	Adjust fine tuning control	Adjust vertical hold control	Adjust brightness control	Check if station is broadcasting colour	Adjust colour control	Check if system switch is correct	Check Batteries in Remote control	
No picture, no sound	✓	✓	✓	✓	✓	✓				✓			
Poor sound, picture OK		✓		✓	✓	✓				✓			
Poor picture, sound OK		✓	✓	✓	✓	✓	✓			✓			
Weak picture		✓	✓	✓	✓	✓				✓			
Blurred picture		✓		✓	✓	✓				✓			
Double image		✓	✓	✓	✓	✓							
Lines in picture		✓		✓	✓	✓							
Distorted picture		✓		✓	✓	✓				✓			
Weak reception on some channels		✓	✓	✓	✓	✓				✓			
Horizontal bars				✓	✓	✓							
Picture rolls vertically		✓		✓	✓	✓	✓			✓			
Poor colour		✓	✓	✓	✓	✓	✓	✓		✓	✓		
No colour		✓	✓	✓	✓	✓			✓	✓	✓		
Misoperation of Remote control													✓
No Remote control													✓